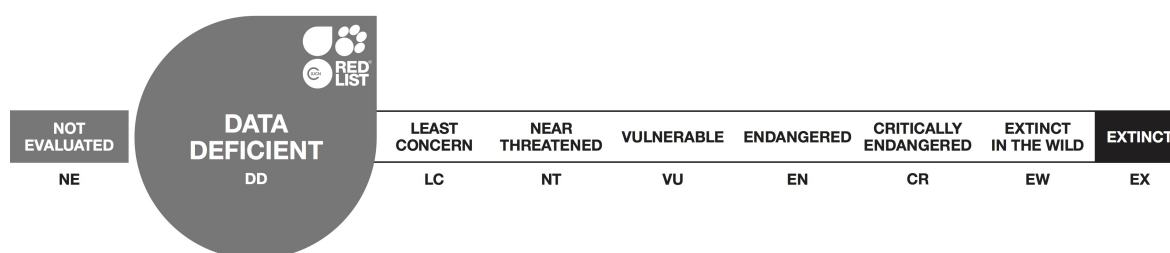


Pittosporum heckelii

Assessment by: Gemmill, C., Veillon, J.-M., Amice, R., Cazé, H., Dumontet, V., Fleurot, D., Garnier, D., Gâteblé, G. & Maggia, L.



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Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Magnoliopsida	Rosales	Pittosporaceae

Taxon Name: *Pittosporum heckelii* Dubard

Taxonomic Source(s):

Tirel, Ch. and Veillon, J.-M. 2002. *Flore de la Nouvelle-Calédonie, tome 24. Pittosporaceae*. Museum d'Histoire Naturelle, Paris.

Assessment Information

Red List Category & Criteria: Data Deficient [ver 3.1](#)

Year Published: 2017

Date Assessed: July 23, 2015

Justification:

Pittosporum heckelii is an endemic small tree of New Caledonia, which under current taxonomic delimitation, is distributed in the centre and northeastern part of Grande Terre. According to current phylogenetic studies, it would appear that at least two species (one from the north and one from the south) have been merged together under the name *P. heckelii*. Until taxonomic species delimitation are clarified, *P. heckelii* qualifies as Data Deficient.

Geographic Range

Range Description:

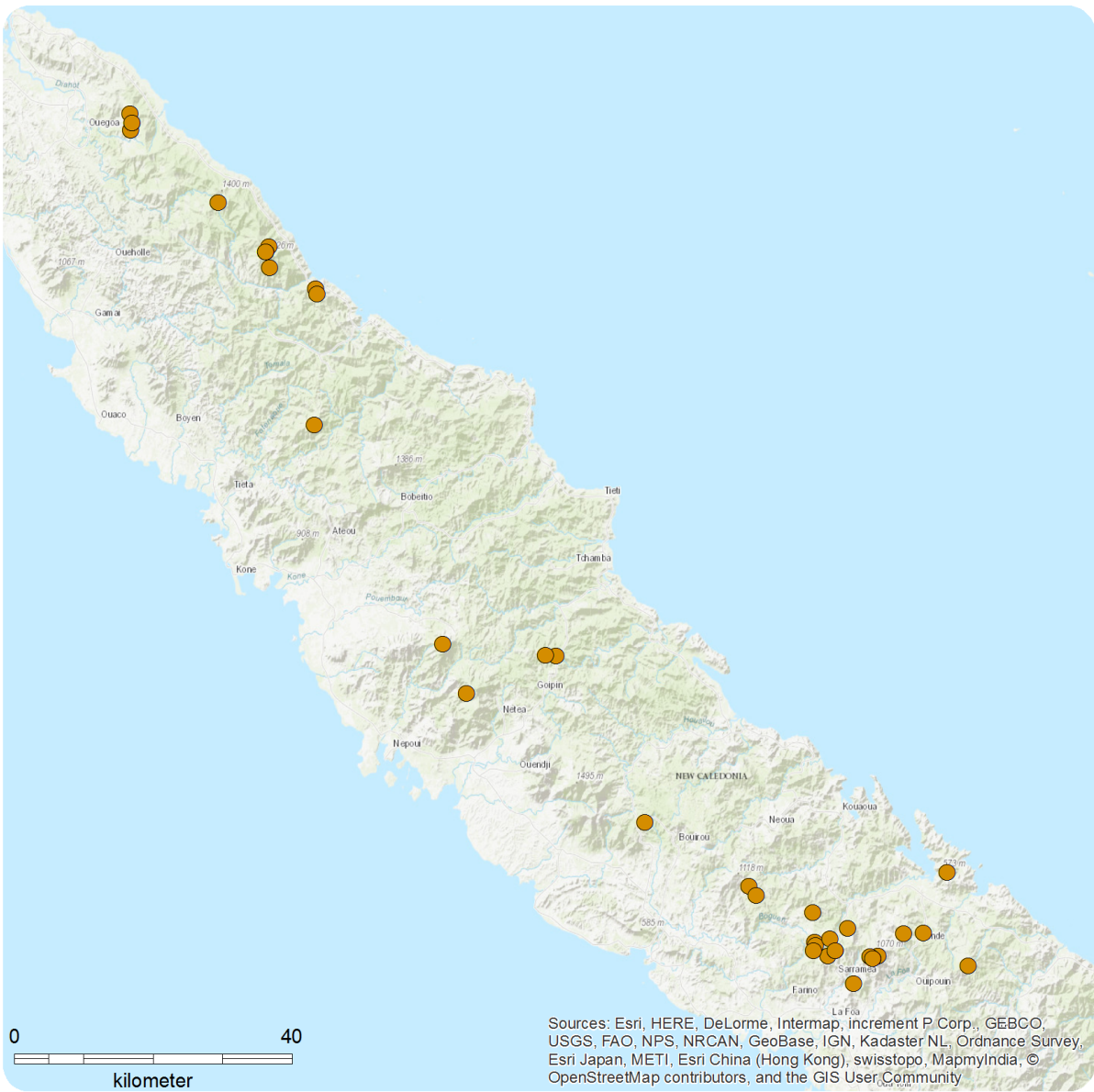
Pittosporum heckelii is an endemic small tree of New Caledonia distributed in the centre and northeastern part of Grande Terre.

Country Occurrence:

Native: New Caledonia

Distribution Map

Pittosporum heckelii



Range

- Extant (resident)

Compiled by:

IUCN SSC New Caledonia Plants RLA



Population

Population size is unknown. Observed individuals are mostly isolated plants.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

Pittosporum heckelii occurs in mid to high altitude in humid forest on all kinds of substrates (schist, ultramafic).

Systems: Terrestrial

Threats (see Appendix for additional information)

Threats linked to habitat degradation of *Pittosporum heckelii* are due to mining activities and Rusa Deer, a major invasive species in New Caledonia.

Conservation Actions (see Appendix for additional information)

Pittosporum heckelii is not protected by legislation. Nevertheless this species occurs in several protected areas: réserve de nature sauvage du mont Panié, réserve de nature sauvage du massif de l'Aoupinié, and Parc des Grandes Fougères. To assess its risk of extinction, it is both critical and urgent that phylogenetic and morphological studies focus on this complex, to describe species and subspecies currently brought together under the species *P. heckelii*. According to taxonomic experts on *Pittosporum*, the north and south subpopulations as well as the northwest and northeast subpopulations could correspond to different species, and could be accommodated by resurrecting the species *P. dognyense*. Given that this species is not protected by legislation, it would be appropriate to set up exceptional conservation measures while we await taxonomic revision.

Credits

Assessor(s): Gemmill, C., Veillon, J.-M., Amice, R., Cazé, H., Dumontet, V., Fleurot, D., Garnier, D., Gâteblé, G. & Maggia, L.

Reviewer(s): Tanguy, V.

Facilitators(s) and Compiler(s): Chanfreau, S.

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L'Huillier, L., Jaffré, T. and Wulff, A. 2010. *Mines et Environnement en Nouvelle-Calédonie: les milieux sur substrats ultramafiques et leur restauration*. IAC, Nouméa.

Tirel, Ch. and Veillon, J.-M. 2002. *Flore de la Nouvelle-Calédonie, tome 24. Pittosporaceae*. Museum d'Histoire Naturelle, Paris.

Citation

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External Resources

For [Images and External Links to Additional Information](#), please see the Red List website.

Appendix

Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
1. Forest -> 1.6. Forest - Subtropical/Tropical Moist Lowland	-	Suitable	-
1. Forest -> 1.9. Forest - Subtropical/Tropical Moist Montane	-	Suitable	-

Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
3. Energy production & mining -> 3.2. Mining & quarrying	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.2. Named species (<i>Rusa timorensis</i>)	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance 2. Species Stresses -> 2.3. Indirect species effects -> 2.3.7. Reduced reproductive success		

Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: Yes
Invasive species control or prevention: No
In-Place Species Management
Successfully reintroduced or introduced benignly: No
Subject to ex-situ conservation: No

Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.1. Taxonomy

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 116
Continuing decline in area of occupancy (AOO): Unknown
Extreme fluctuations in area of occupancy (AOO): No
Estimated extent of occurrence (EOO) (km ²): 4694
Continuing decline in extent of occurrence (EOO): Unknown
Extreme fluctuations in extent of occurrence (EOO): No
Number of Locations: 0
Continuing decline in number of locations: Unknown
Extreme fluctuations in the number of locations: No
Lower elevation limit (m): 400
Upper elevation limit (m): 1100
Population
Continuing decline of mature individuals: Unknown
Extreme fluctuations: No
Population severely fragmented: Yes
Extreme fluctuations in subpopulations: No
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Unknown
Generation Length (years): 0

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